

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Masahiro IWADARE

Title: FAST CALCULATION APPARATUS FOR
CARRYING OUT A FORWARD AND AN
INVERSE TRANSFORM

Appl. No.: 10/642,968

Filing Date: 08/19/2003

Examiner: Unassigned

Art Unit: Unassigned

AMENDMENT TRANSMITTALCommissioner for Patents
PO Box 1450
Alexandria, Virginia 22313-1450

Sir:

Transmitted herewith is an amendment in the above-identified application.

☐ Small Entity status under 37 C.F.R. § 1.9 and § 1.27 has been established by a
previous assertion of Small Entity status.

☐ Assertion of Small Entity status is enclosed.

☒ The fee required for additional claims is calculated below:

| | Claims As Amended | | Previously Paid For | | Extra Claims Present | | Rate | | Additional Claims Fee |
|--|----------------------|---|------------------------|---|-------------------------|---|----------|---|--------------------------|
| Total Claims: | 43 | - | 29 | = | 14 | x | \$18.00 | = | \$252.00 |
| Independent Claims: | 10 | - | 4 | = | 6 | x | \$86.00 | = | \$516.00 |
| First presentation of any Multiple Dependent Claims: | | | | | | + | \$290.00 | = | \$0.00 |
| CLAIMS FEE TOTAL | | | | | | | | | = \$768.00 |

☐ Applicant hereby petitions for an extension of time under 37 C.F.R. § 1.136(a) for the
total number of months checked below:

| | | | |
|--------------------------|---|------------|----------|
| <input type="checkbox"/> | Extension for response filed within the first month: | \$110.00 | \$0.00 |
| <input type="checkbox"/> | Extension for response filed within the second month: | \$420.00 | \$0.00 |
| <input type="checkbox"/> | Extension for response filed within the third month: | \$950.00 | \$0.00 |
| <input type="checkbox"/> | Extension for response filed within the fourth month: | \$1,480.00 | \$0.00 |
| <input type="checkbox"/> | Extension for response filed within the fifth month: | \$2,010.00 | \$0.00 |
| | EXTENSION FEE TOTAL: | | \$0.00 |
| <input type="checkbox"/> | Statutory Disclaimer Fee under 37 C.F.R. 1.20(d): | \$110.00 | \$0.00 |
| | CLAIMS, EXTENSION AND DISCLAIMER FEE TOTAL: | | \$768.00 |
| <input type="checkbox"/> | Small Entity Fees Apply (subtract ½ of above): | | \$0.00 |
| | TOTAL FEE: | | \$768.00 |

- ☐ Please charge Deposit Account No. 19-0741 in the amount of \$768.00. A duplicate copy of this transmittal is enclosed.
- ☒ A check in the amount of \$768.00 is enclosed.
- ☒ The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 C.F.R. §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 19-0741. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 19-0741. If any extensions of time are needed for timely acceptance of papers submitted herewith, applicant hereby petitions for such extension under 37 C.F.R. §1.136 and authorizes payment of any such extensions fees to Deposit Account No. 19-0741.

Please direct all correspondence to the undersigned attorney or agent at the address indicated below.

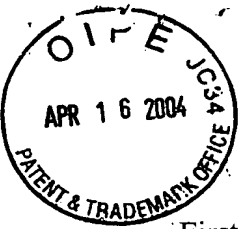
Respectfully submitted,

Date April 16, 2004

By Marc K. Weinstein

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named Inventor: Masahiro IWADARE

Title: FAST CALCULATION APPARATUS FOR CARRYING OUT A FORWARD AND AN INVERSE TRANSFORM

Reissue Application No.: 10/642,968

Reissue Filing Date: August 19, 2003

Original Patent: 5,218,561

PRELIMINARY AMENDMENT

Assistant Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Please amend the pending reissue application claims as follows:

25. (Pending) An apparatus for carrying out an inverse transform comprising:

an input signal $y(m,k)$;

transform carrying out means for carrying out a linear inverse transform on said input signal $y(m,k)$ and for outputting an inverse transformed signal $x_t(m,n)$ representative of a result of said linear inverse transform, said linear inverse transform being defined by:

$$x_t(m,n) = \frac{2}{N} \sum_{k=0}^{N-1} y(m,k) \cos[2\pi(n+n_0)(k+1/2)/N]$$

where m represents a block number, n represents a sample number, N represents a block length and k is an integer between 0 and $N-1$;